

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER

BRUN-003XX

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)

**107567887**

INTERNATIONAL APPLICATION NO.

PCT/US2004/025373

INTERNATIONAL FILING DATE

August 5, 2004

PRIORITY DATE CLAIMED

August 12, 2003

TITLE OF INVENTION

**APPARATUS AND METHOD FOR PERFORMING TIME DELAY ESTIMATION OF SIGNALS PROPAGATING  
THROUGH AN ENVIRONMENT**

APPLICANT(S) FOR DO/EO/US

Nathan Intrator, Ki-O Kim, Nicola Neretti, Leon Cooper

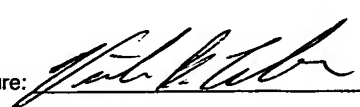
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ had been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached herewith (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98 (with attached copy of International Search Report).
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other: Letter to Official Draftsman along with 15 sheets of formal drawings of figs. 1a-15:

1AP3 Rec'd PCT/PTO 09 FEB 2006

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/567887</b>		INTERNATIONAL APPLICATION NO PCT/US2004/025373		ATTORNEY'S DOCKET NUMBER BRUN-003XX	
The following fees have been submitted:				CALCULATIONS      PTO USE ONLY	
21. <input checked="" type="checkbox"/> Basic national fee.....				\$300.00	\$300.00
22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) .....				\$100.00	\$200.00
All other situations .....				\$200.00	
23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....				\$100.00	\$100.00
International Search Report prepared and provided to the Office.....				\$400.00	
All other situations.....				\$500.00	
<b>TOTAL OF 21, 22 and 23 =</b>					\$600.00
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250.00 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/ 50 =		X \$250.00	\$0	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).				\$0	
CLAIMS		NUMBER FILED	NUMBER EXTRA	RATE	
Total claims		66 - 20 =	46	X \$ 50.00	\$2,300.00
Independent claims		6 - 3 =	3	X \$200.00	\$600.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$360.00	\$0
<b>TOTAL OF ABOVE CALCULATIONS =</b>					\$3,500.00
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					\$1,750.00
<b>SUBTOTAL =</b>					\$1,750.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(l)).				+	\$0
<b>TOTAL NATIONAL FEE =</b>					\$1,750.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+	\$0
<b>TOTAL FEES ENCLOSED =</b>					\$1,750.00
				Amount to be Refunded:	\$
				Amount to be Charged:	\$
<p>a. <input checked="" type="checkbox"/> A check in the amount of \$1,750.00 to cover the above fees, except assignment recordation, is enclosed. A check in the amount of \$_____ is enclosed for the assignment recordation fee.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$_____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>23-0804</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> <p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p>					
SEND ALL CORRESPONDENCE TO: <input checked="" type="checkbox"/> Customer Number 00207			which is associated with the Law Firm of: WEINGARTEN, SCHURGIN, GAGNEBIN & LEOVICI LLP Ten Post Office Square Boston, Massachusetts 02109 United States Telephone: (617) 542-2290 Fax: (617) 451-0313		
Attorney Signature: 			Date: <u>2/9/06</u>		
Attorney Name: <u>Victor B. Lebovici</u>			Registration No: <u>30,864</u>		

10/567887

Rev 09/03

IAP5 Rec'd PCT/PTO 09 FEB 2006 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application : Nathan Intrator et al.  
Filed : HEREWITH  
For : APPARATUS AND METHOD FOR PERFORMING TIME  
DELAY ESTIMATION OF SIGNALS PROPAGATING  
THROUGH AN ENVIRONMENT  
Attorney's Docket : BRUN-003XX

TC Art Unit:

\*\*\*\*\*  
I hereby certify that this correspondence is being deposited with  
the United States Postal Service as first class mail in an  
envelope addressed to: Commissioner for Patents, P.O. Box 1450,  
Alexandria, VA 22313-1450 on \_\_\_\_\_.

By: \_\_\_\_\_  
Victor B. Lebovici  
Registration No. 30,864  
Attorney for Applicants

\*\*\*\*\*

LETTER TO OFFICIAL DRAFTPERSON  
RE: SUBMISSION OF FORMAL DRAWINGS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Kindly substitute these drawings for the ones currently on  
file as appropriate and charge any costs associated therewith to  
Patent and Trademark Office Account No. 23-0804.

- 1 -

Express Mail No.:

Filed: HEREWITH  
TC Art Unit:  
Confirmation No.:

Triplicate copies of this transmittal letter are enclosed.

Respectfully submitted,

NATHAN INTRATOR ET AL.

By: 

Victor B. Lebovici

Registration No. 30,864

Attorney for Applicants

WEINGARTEN, SCHURGIN,  
GAGNEBIN & LEOVICI LLP

Ten Post Office Square  
Boston, Massachusetts 02109  
Telephone: (617) 542-2290  
Telecopier: (617) 451-0313

Enclosure

332492.1